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<110> Roche Diagnostics Operations, Inc.

<120> Optimised Protein Synthesis

<130> 21556

<140> PCT/EP03/013964

<141> 2003-12-09

<160> 57

<170> PatentIn Ver. 2.1

<210> 1

<211> 84

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer C

<400> 1

gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttta gaaggagata tacc 84

<210> 2

<211> 71

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer D

<400> 2

caaaaaaccc ctcaagaccc gtttagaggc cccaaggggg gccgccagtg tgctgaattc 60
gccttttatt a 71

<210> 3

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A
without hairpinloop

<400> 3

aggagatata ccatgactag caaaggagaa 30

<210> 4

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A
Stem Length 4 bp

<400> 4

aggagatata ccatgactaa ttttagtact agcaaaggag aa 42

<210> 5

SEQUENCE LISTING.txt

<211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A
 Stem Length 5 bp

<400> 5
 aggagatata ccatgactgt ttatacagta actagcaaag gagaa 45

<210> 6
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A
 Stem Length 6 bp

<400> 6
 aggagatata ccatgactgg tcaattacca gtaactagca aaggagaa 48

<210> 7
 <211> 51
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A
 Stem Length 7 bp

<400> 7
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<210> 8
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 <212> DNA
 <213> Artificial Sequence

<220>
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 Stem Length 8 bp

<400> 8
 aggagatata ccatgactgc acgtgatcgt gcagtaacta gcaaaggaga a 51

<210> 9
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer B

<400> 9
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<210> 10
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 <212> DNA
 <213> Artificial Sequence

SEQUENCE LISTING.txt

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<220>
<223> Description of Artificial Sequence:Primer A

<400> 10
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<210> 11
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 11
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ttc                                                                 63

<210> 12
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

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ttcact                                                                 66

<210> 13
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 13
aggagatata ccatgactag caaaggagaa actgcacgtg catcgtgcag tgtagaactt 60
ttcactgga                                                                 69

<210> 14
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 14
aggagatata ccatgactag caaaggagaa gaaactgcac gtgcatcgtg cagtgtactt 60
ttcactggag tt                                                                 72

<210> 15
<211> 75
<212> DNA
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<400> 15

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SEQUENCE LISTING.txt

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ttcactggag ttgtc 75

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<211> 71
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer D

<400> 16
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ttagtttatt a 71

<210> 17
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 17
aggagatata ccatgaaata tacatattct ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 18
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 18
aggagatata ccatgaaaac atattattct ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 19
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 19
aggagatata ccatgaaata ttcttataca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 20
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 20
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<210> 21
<211> 60
<212> DNA

SEQUENCE LISTING.txt

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A Variant

<400> 21

aggagatata ccatgaaata tacatattca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 22

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A Variant

<400> 22

aggagatata ccatgaaaac atattattca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 23

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A Variant

<400> 23

aggagatata ccatgaaata ttcatataca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 24

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A Variant

<400> 24

aggagatata ccatgaaata ttattcaaca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 25

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A Variant

<400> 25

aggagatata ccatgcatca tcatcatcat ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 26

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer wildtype

<400> 26

aggagatata ccatggctaa caccgcg

27

SEQUENCE LISTING.txt

<210> 27
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer B

<400> 27
aggattagtt tattaatgat gatgatgatg atggcgccgg gtgcgcga 48

<210> 28
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 28
aggagatata ccatgaaata tacatattct ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 29
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 29
aggagatata ccatgaaaac atattattct ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 30
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 30
aggagatata ccatgaaata ttcttatata ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 31
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 31
aggagatata ccatgaaata ttattctaca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 32
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

SEQUENCE LISTING.txt

<400> 32
aggagatata ccatgaaata tacatattca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 33
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 33
aggagatata ccatgaaaac atattattca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 34
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 34
aggagatata ccatgaaata ttcataata ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 35
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 35
aggagatata ccatgaaata ttattcaaca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 36
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 36
aggagatata ccatgcatca tcattcatct ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 37
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
wildtype

<400> 37
aggagatata ccatgggtgc cccgacg

27

<210> 38
<211> 49
<212> DNA

SEQUENCE LISTING.txt

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer B

<400> 38

aggattagtt tattaatgat gatgatgatg atgatccatg gcagccagc

49

<210> 39

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer

<400> 39

aggagatata ccatgaaata tacatattct ctgcacgtga tcgtgcagga gttggggccc 60

<210> 40

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer

<400> 40

aggagatata ccatgaaaac atattattct ctgcacgtga tcgtgcagga gttggggccc 60

<210> 41

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer

<400> 41

aggagatata ccatgaaata ttcttataca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 42

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer

<400> 42

aggagatata ccatgaaata ttattctaca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 43

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer

<400> 43

aggagatata ccatgaaata tacatattca ctgcacgtga tcgtgcagga gttggggccc 60

SEQUENCE LISTING.txt

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<210> 44
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 44
aggagatata ccatgaaaac atattattca ctgcacgtga tcgtgcagga gttggggccc 60


<210> 45
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 45
aggagatata ccatgaaata ttcatatata ctgcacgtga tcgtgcagga gttggggccc 60


<210> 46
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 46
aggagatata ccatgaaata ttattcaaca ctgcacgtga tcgtgcagga gttggggccc 60


<210> 47
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 47
aggagatata ccatgcatca tcatcatcat ctgcacgtga tcgtgcagga gttggggccc 60


<210> 48
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
wildtype

<400> 48
aggagatata ccatggagtt ggggccc

<210> 49
<211> 45
<212> DNA
<213> Artificial Sequence

<220>

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27

SEQUENCE LISTING.txt

<223> Description of Artificial Sequence:Primer B

<400> 49
aggattagtt tattattaat gatgatgatg atgatgagaa ccccc 45

<210> 50
<211> 431
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Expression construct for mutant 1

<400> 50
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttta gaaggagata taccatgaaa tatacatatt ctctgcacgt gatcgtgcag 120
gctaaccacg cgccggggacc cacggtggcc aacaagcggg acgaaaaaca ccgtcacgtc 180
gttaacgctg ttttggagct gccgaccgag atatcagagg ccacccaccc ggtgttggcc 240
accatgctga gcaagtacac gcgcatgtcc agcctgttta atgacaagtg cgcctttaag 300
ctggacctgt tgcgcatggt agccgtgtcg cgcacccggc gccatcatca tcatcatcat 360
taataaacta atccttaaca ttctactccc aacccttgg ggccctctaa cgggtcttga 420
ggggtttttt g 431

<210> 51
<211> 398
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Expression construct for wildtype

<400> 51
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttta gaaggagata taccatggct aacaccgcgc cgggacccac ggtggccaac 120
aagcgggacg aaaaacaccg tcacgtcgtt aacgtcgttt tggagctgcc gaccgagata 180
tcagaggcca cccacccggt gttggccacc atgctgagca agtacacgcg catgtccagc 240
ctgttttaag acaagtgcgc ctttaagctg gacctgttgc gcatggtagc cgtgtcgcgc 300
accgggcgcc atcatcatca tcatcattaa taaactaatc ctttaacatt tactcccaac 360
cccttggggc ctctaaacgg gtcttgaggg gttttttg 398

<210> 52
<211> 632
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Expresion construct for mutant 1

<400> 52
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttta gaaggagata taccatgaaa tatacatatt ctctgcacgt gatcgtgcag 120
ggtgccccga cgttgccccc tgccctggcag ccctttctca aggaccaccg catctctaca 180
ttcaagaact ggcccttctt ggagggtcgc gcctgcaccc cggagcggat ggccgaggct 240
ggcttcatcc actgccccac tgagaacgag ccagacttgg cccagtgttt cttctgcttc 300
aaggagctgg aaggctggga gccagatgac gaccccatag aggaacataa aaagcattcg 360
tccggttgcg ctttcctttc tgtcaagaag cagtttgaag aattaaccct tgggtgaattt 420
ttgaaacttg acagagaaag agccaagaac aaaattgcaa aggaaaccaa caataagaag 480
aaagaatttg aggaactgc gaagaaagtg cgccgtgcc a tcgagcagct ggctgccatg 540
gatcatcatc atcatcatca ttaataaact aatccttaac attctactcc caacccttg 600
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SEQUENCE LISTING.txt

<210> 53
 <211> 599
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 Expression construct for wildtype

<400> 53
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 ttaactttta gaaggagata taccatgggt gccccgacgt tgccccctgc ctggcagccc 120
 tttctcaagg accaccgcat ctctacattc aagaactggc ctttcttgga gggctgcgcc 180
 tgcaccccg agcggtggc cgaggctggc ttcattccact gccccactga gaacgagcca 240
 gacttgccc agtgtttctt ctgcttcaag gagctggaag gctgggagcc agatgacgac 300
 cccatagagg aacataaaaa gcattcgtcc ggttgcgctt tcctttctgt caagaagcag 360
 tttgaagaat taacccttgg tgaatttttg aaactggaca gagaaagagc caagaacaaa 420
 attgcaaagg aaaccaacaa taagaagaaa gaatttgagg aaactgcgaa gaaagtgcgc 480
 cgtgccatcg agcagctggc tgccatggat catcatcatc atcatcatta ataaactaat 540
 ccttaacatt ctactcccaa ccccttgggg cctctaaacg ggtcttgagg ggttttttg 599

<210> 54
 <211> 1400
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 Expression construct for mutant 1

<400> 54
 gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
 ttaactttta gaaggagata taccatgaaa tatacatatt ctctgcacgt gatcgtgcag 120
 gagttggggc ccctagaagg tggctacctg gagcttctta acagcgatgc tgacccccctg 180
 tgcctctacc acttctatga ccagatggac ctggctggag aagaagagat tgagctctac 240
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 ggggtcttgag gggtttttg 1400

<210> 55
 <211> 1367
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 Expression construct for wildtype

<400> 55

SEQUENCE LISTING.txt

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ttaactttta	gaaggagata	taccatggag	ttggggcccc	tagaagggtg	ctacctggag	120
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cagtttcagca	ggctgtttgt	tgacatggaa	ggtgatgaag	agaccagggg	ggcttatgcc	300
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gaagttgggc	agaaaagtca	gaaaagaccc	ttcccagagg	agcttccggc	agacctgaag	480
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ctggctgagg	tgctgttggc	tgccaaggag	caccggcggc	cgcgtcgact	cgagcgagct	1260
cccggggggg	gttctcatca	tcatcatcat	cattaataat	aaactaatcc	ttaacattct	1320
actcccaacc	ccttgggggc	tctaaacggg	tcttgagggg	ttttttg		1367

<210> 56
 <211> 938
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial
 Sequence:Expression construct

<400> 56						
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actagcaaag	gagaagaact	tttacttgga	gttgtcccaa	ttcttggtga	attagatggg	180
gatgttaatg	ggcacaaaat	ttctgtcagt	ggagaggggtg	aagggtgatgc	tacatacggg	240
aagctttacc	ttaaattttat	ttgcactact	ggaaaactac	ctgttccatg	gccaacactt	300
gtcactactt	tctcttatgg	tgttcaatgc	ttttcccggt	atccggatca	tatgaaacgg	360
catgactttt	tcaagagtgc	catgcccga	ggttatgtac	aggaacgcac	tatatctttc	420
aaagatgacg	ggaactacaa	gacgcgtgct	gaagtcaagt	ttgaagggtga	tacccttggt	480
aatcgtatcg	agttaaaagg	tattgatttt	aaagaagatg	gaaacattct	cggacacaaa	540
ctcagagtaca	actataactc	acacaatgta	tatatcacgg	cagacaaaaca	aaagaatgga	600
atcaaagcta	acttcaaaat	tcgccacaac	attgaagatg	gatccggtta	actagcagac	660
cattatcaac	aaaatactcc	aattggcgat	ggccctgtcc	ttttaccaga	caaccattac	720
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 <213> Artificial Sequence

<220>
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 Expression construct

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SEQUENCE LISTING.txt

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